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THERMORESISTANT WATER BAG

Filed July 9, 1930

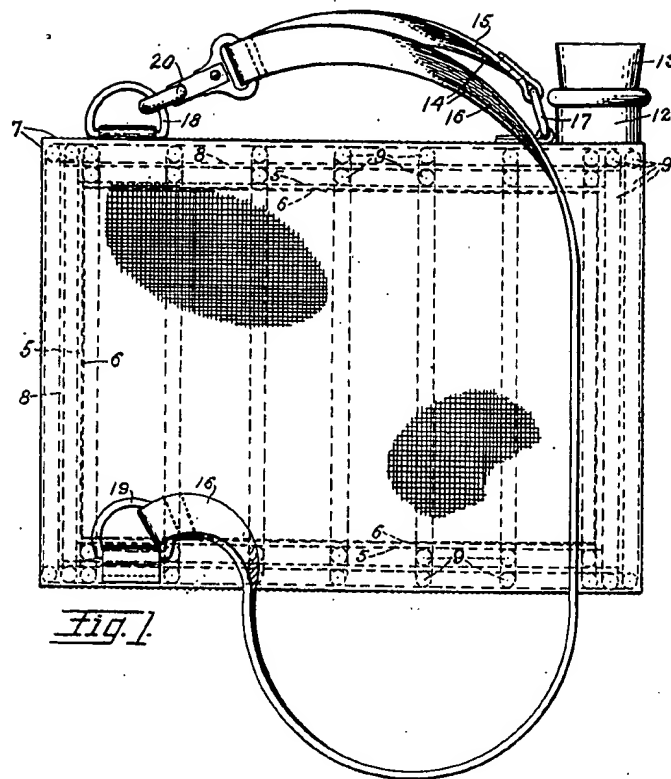


Fig. 1.

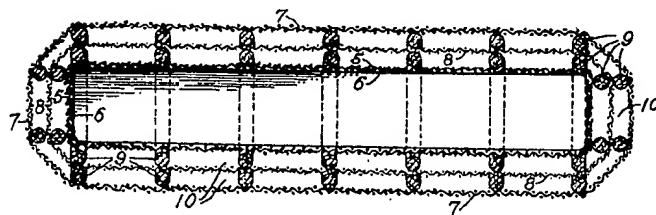


Fig. 2.

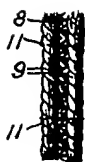


Fig. 3.

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THERMORESISTANT WATER BAG

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This invention relates to liquid receptacles, and especially to an improved thermo-resistant water-bag.

One object of this invention is to provide an improved water-bag that will keep cold water cold, and hot water hot, for a longer interval than is possible with water-bags of ordinary construction, and which is flexible and collapsible; so it is useful either for keeping and carrying cool drinking water, or for imparting heat to a patient or other person who needs local hot applications.

A further object is to provide a device of this character that is provided with an air-space or air-jacket entirely inclosing the inner chamber or bag which constitutes the actual water-bag or liquid container.

Another object is to provide a device of this character that is provided with a combined sling and handle, so it can be either slung over the shoulder of the user, or carried suspended from either hand, as a hand-bag.

Other objects and important features are pointed out or implied in the following details of description, in connection with the accompanying drawing in which:

Fig. 1 is a side elevation of my improved water-bag arranged for carrying as a hand-bag.

Fig. 2 is a horizontal sectional view, the carrying strap and its connections being omitted.

Fig. 3 is a fragmental detail showing parts of two spacing elements or cords stitched or tacked to the intermediate bag or element that holds these spacing elements in their proper relation to the other parts of the device.

Referring to this drawing, in which similar reference characters correspond to similar parts in the several views, the invention is described in detail as follows:

The inner bag may be of any appropriate water-proof or water-proofed material, but is here shown, at 5, as formed of woven fabric or canvas with an inner surface-coating 6 which may be of rubber or other substance. The outer bag 7 may also be of heavy and close-woven material and may be water-proofed by impregnating it with oil or other

substance so it is substantially air-tight. The intermediate element or bag 8 may be of light fabric such as muslin, or of any appropriate sheet material, and need not be air-tight or water-proof. The purpose of this intermediate element is to provide a low-cost retaining element, that is also very practical, for holding the spacing elements or cords 9 in their respective places, in spaced pairs, so as to provide air-spaces between the inner and outer bags, and thus to provide heat-insulation or thermo-resistant means between the inner and outer bags.

When the inner bag is empty, it is collapsed, so the air-space around it is relieved of pressure, and the entire device can be collapsed; but when the bag 5 is filled with liquid, it is extended until it bears against all the inner cords or spacing elements and expands the intermediate and outer elements 8 and 7 from their collapsed condition.

In Fig. 3, it is seen that the pair of cords 9 is stitched to the intermediate element 8 as indicated at 11. However, it should be understood that the spacing elements may be united with the intermediate element integrally or by any appropriate securing means.

An inlet and outlet element or mouth 12 may be secured in place by any appropriate means, and a cork 13 or other closing means may be provided to close the mouth 12.

A carrying strap 14 may include a handle portion 15 and a sling portion 16. Carrying connections 17, 18 and 19 are secured on the outer bag and on the strap 14 by any appropriate means. A snap-hook or detachable connector 20 is secured in place on an intermediate part of the strap, at the junction of the parts 15 and 16, and when engaged with the connection or ring 18, combines with the latter and with the strap-section 16 and ring 17 to form a handle or bail by which the device can be carried in one hand. When the connector 20 is disengaged from the ring 18, the entire strap and its connections 17 and 18 combine to form a sling or shoulder-strap, so the device can be carried on the body of the user.

Although I have described this embodiment of my invention specifically, I do not

intend to limit my patent protection to these exact details of description, for the invention is susceptible of numerous changes within the scope of the inventive ideas as implied and claimed.

What I claim as my invention is:

1. A collapsible thermo-resistant liquid-receptacle including an inner collapsible receptacle, an outer collapsible receptacle, and a collapsible intermediate spacing unit having relatively thick and relatively thin parts and extending entirely around the inner receptacle so as to hold the outer receptacle spaced from the inner receptacle and to provide air-spaces for confining air between said inner and outer receptacles.

2. A collapsible thermo-resistant liquid-receptacle including an inner collapsible impervious receptacle, an outer substantially impervious collapsible receptacle, an intermediate collapsible element of sheet-material, and spacing elements arranged in pairs spaced from one another to provide air-spaces between the inner and outer receptacles, the spacing members of each pair being united with said intermediate collapsible element and on opposite sides thereof and free from union with the inner and outer receptacles.

In testimony whereof I affix my signature.

JOSEPH F. MYKOL.